

# MATERIAL SAFETY DATA SHEET

Adapted and modified from USDL Form OSHA-20

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. Use or dissemination of all or any part of this information for any other purpose may result in a violation of law or constitute grounds for legal action.

## SECTION I

MANUFACTURER'S NAME INDUSTRIAL POLYCHEMICAL SERVICE		EMERGENCY TELEPHONE NO. 213-321-6515
ADDRESS (Number, Street, City, State, and ZIP Code) P.O. Box 471, Gardena, California 90247		
CHEMICAL NAME AND SYNONYMS NA		TRADE NAME AND SYNONYMS WELD-ON 713 Solvent Cement for
CHEMICAL FAMILY NA	FORMULA NA	CPVC plastic pipe.

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE CPVC Resin (Non-Hazardous)			METALLIC COATINGS		
SOLVENTS Minimum(See Below)	85%	200	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS Dye-Trace Quantity					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Tetrahydro Furan (THF) Major					
Cyclohexanone very minor					
Methyl ethyl Keton very minor					
Calculated Tlv PPM					200

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.) the lowest boiling point	151	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	
VAPOR PRESSURE (mm Hg.) 25 C	190	PERCENT. VOLATILE BY VOLUME (%) Approx.	85-90%
VAPOR DENSITY (AIR=1)	2.49	EVAPORATION RATE (BIDAC =1) Initially	8.0
SOLUBILITY IN WATER resin precipitates			
APPEARANCE AND ODOR TAN COLOR MEDIUM SYRUPY LIQUID, ETHERAL ODOR			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) T.O.C. 6 F	FLAMMABLE LIMITS	Lel 1.8%	Uel 11.8%
EXTINGUISHING MEDIA DRY CHEMICAL, CARBONDIOXIDE, FOAM ANSUL "PURPLEK"- National Aer-o-Foam			
SPECIAL FIRE FIGHTING PROCEDURES Close or confined quarters requireself contained breathing appartus			
Positive Pressure hose masks or airline Masks			
UNUSUAL FIRE AND EXPLOSION HAZARDS Fire Hazard Because of low flash points, high votality and heavy vapors			

USEPA SF



1490382



## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 200 PPM

EFFECTS OF OVEREXPOSURE Severe overexposure may result in nausea, dizziness, headache, can cause narcosis irritation of eyes and nasal passages, normal defatting effect of solvents on tissue.

### EMERGENCY AND FIRST AID PROCEDURES

Vapors: Remove to fresh air.

Liquid: Remove contaminated clothing and wash skin with water, flush eyes with

plenty of water for 15 minutes, call physician, if swallowed, do not induce vomiting,

CALL PHYSICIAN IMMEDIATELY

## SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Keep away from sparks and open Flame
	STABLE		
INCOMPATIBILITY (Materials to avoid) CAUSTIC AMONIA, INORGANIC ACID			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Eliminate all ignition sources, avoid breathing of vapors, keep liquid out of eyes, flush with large volume of water.

WASTE DISPOSAL METHOD Incinerate excessive quantities should not be permitted to enter drains where there is danger of vapor becoming ignited.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) None required with normal ventilation. Use respirator for organic vapors for confined areas. Mine safety appliance respirator Car. No. 459433.

VENTILATION	LOCAL EXHAUST	SPECIAL
	Local exhaust-(preferable) provide normal	ventilation.
	MECHANICAL EXHAUST	OTHER
PROTECTIVE GLOVES Rubber or PVA Gloves are suitable		EYE PROTECTION Chemical safety goggles to prevent splash-
OTHER PROTECTIVE EQUIPMENT Impervious apron		ing in eyes.

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  
Keep away from heat, sparks and open flame. Avoid prolonged breathing of vapor.  
avoid skin contact, store between 40 and 110 Degrees F.

OTHER PRECAUTIONS

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.  
Vendor assumes no responsibility for injury to vendee or third person proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.



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## SECTION I

MANUFACTURER'S NAME INDUSTRIAL POLYCHEMICAL SERVICE		EMERGENCY TELEPHONE NO. (213) 321-6515
ADDRESS (Number, Street, City, State, and ZIP Code) 17109 S. MAIN STREET, P.O. BOX 471, GARDENA, CALIFORNIA 90247		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS WELD-ON 721 PVC PLASTIC PIPE
CHEMICAL FAMILY MIXTURE OF PVC RESIN AND ORGANIC SOLVENTS	FORMULA N/A	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS & ADHESIVES	APPROX. %	TLV (Units)
PIGMENTS/Dye: Blue Dye		N/A
INERT FILLER		N/A
RESIN Polyvinyl Chloride Resin		N/A
SOLVENTS See Below	80 - 86%	
ADDITIVES		
OTHERS		
HAZARDOUS MIXTURES OF-SOLVENTS		TLV (Units)
Tetrahydrofuran (THF) Major		200 PPM
Dimethylformamide (DMF) Minor		10 PPM
		(Skin)

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.) Based on 1st boiling comp. - THF	151°F	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	0.965 + 0.012
VAPOR PRESSURE (mm Hg.) Lowest boiling Component (THF) @ 25°C	190	PERCENT. VOLATILE BY VOLUME (%)	85 - 90%
VAPOR DENSITY (AIR=1)	2.49	EVAPORATION RATE (BUAC = 1) (Initially)	8
SOLUBILITY IN WATER Solvent portion PVC Resin	Precipitates		
APPEARANCE AND ODOR Blue color, Medium syrupy liquid, ethereal odor.			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) T.O.C. 10°F	FLAMMABLE LIMITS	Lel 1.8	Uel 11.8
EXTINGUISHING MEDIA Dry chemical, carbon dioxide, foam - Ansul "Purple K" - National Aer-O-Foam			
SPECIAL FIRE FIGHTING PROCEDURES Close or confined quarters require self contained breathing apparatus. Positive pressure hose masks or airline masks.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Fire hazard because of low flash points, high volatility and heavy vapor.			



## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	Tetrahydrofuran (THF) 200 PPM, Dimethylformamide (DMF) 10 PPM
EFFECTS OF OVEREXPOSURE	Severe overexposure may result in nausea, dizziness, headache. Can cause narcosis, irritation of eyes and nasal passages. May irritate skin. May produce cumulative injury when repeatedly absorbed through skin in sufficient quantities, defatting effect of solvents on tissue.
EMERGENCY AND FIRST AID PROCEDURES	If overcome by vapors, remove to fresh air and if breathing stopped, give artificial respiration. Liquid: remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Discard contaminated shoes. Wash skin with plenty of water for 15 minutes. Flush eyes with plenty of water for 15 minutes and call a physician. If swallowed, do not induce vomiting. Call physician immediately.

## SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Keep away from heat, sparks, open flame and other
	STABLE	X	sources of ignition.
INCOMPATIBILITY (Materials to avoid) Caustic, ammonia, inorganic acids, chromic acid, chlorinated compounds, magnesium nitrate, strong oxidants and isocyanates.			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR		

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large volume of water. Contain liquid with sand or earth. Prevent liquid from entering sewers.
WASTE DISPOSAL METHOD	Incinerate. Excessive quantities should not be permitted to enter drains. Consult disposal expert. Follow local, state and Federal regulations.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)	None required with normal ventilation. Use respirator for organic vapors for confined areas, e.g., Mine Safety Appliance Respirator Cat. No. 459433.		
VENTILATION	LOCAL EXHAUST (Preferable)	Provide normal ventilation.	SPECIAL (Vapor concentration should be well below TLV)
	MECHANICAL (General)	Low point minimum of 6 air changes per hour.	OTHER
PROTECTIVE GLOVES	Rubber or PVA gloves are suitable.		EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT	Impervious apron (if needed)		Chemical safety goggles to prevent splashing in eyes.

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation. Avoid contact with skin. Store between 40°F and 110°F.
OTHER PRECAUTIONS	(Follow precautionary information given on container label) All handling equipment should be electrically grounded.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third person proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.



IPS

WELD-ON

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## SECTION I

## MANUFACTURER'S NAME

INDUSTRIAL POLYCHEMICAL SERVICE

## EMERGENCY TELEPHONE NO.

(213) 321-6515

## ADDRESS

17109 SOUTH MAIN STREET, P.O. BOX 379, GARDENA, CA. 90247

## CHEMICAL NAME AND FAMILY

PVC PRIMER

Mixture of organic solvents

## TRADE NAME

Weld-On P-70 Primer for PVC Plastic Pipe

## FORMULA

NA

## SECTION II - HAZARDOUS INGREDIENTS

	APPROX. %	TLV (Units)
RESINS: NONE		
Tetrahydrofuran (THF) Major Component		200 PPM
Methyl Ethyl Ketone (MEK) Minor Component		200 PPM
Dimethylformamide (DMF) Very Minor Component		10 PPM (SKIN)
Cyclohexanone Very Minor Component		50 PPM
Purple Dye Trace Quantity		

## SECTION III - PHYSICAL DATA

APPEARANCE Clear or Purple Color	ODOR Ethereal
BOILING POINT (°F/°C) 151°F based on first boiling component - THF.	SPECIFIC GRAVITY @ 73 ± 2°F Typical: 0.870 ± 0.010
VAPOR PRESSURE (mm Hg.) 190 mm Hg. based on first boiling component - THF.	PERCENT VOLATILE BY VOLUME (%) 100%
VAPOR DENSITY (AIR = 1) 2.49	EVAPORATION RATE (BUAC = 1) Initially 8
SOLUBILITY IN WATER Solvents completely soluble in water	

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT T.C.C. 6°F	FLAMMABLE LIMITS (PERCENT BY VOLUME)	LEL 2	UEL 11.8
FIRE EXTINGUISHING MEDIA Dry chemical, carbon dioxide, foam - Ansul "Purple K" - National Aer-O-Foam, water fog.			
SPECIAL FIRE FIGHTING PROCEDURES Evacuate enclosed areas. Stay up wind. Close or confined quarters require self-contained breathing apparatus; positive pressure hose masks or airline masks. Use water spray to cool containers, to flush spills from source of ignition, and to disperse vapors.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Fire hazard because of low flash point and high volatility. Vapors are heavier than air and may travel to source of ignition.			



## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE See individual TLV on first page.

## EFFECTS OF OVEREXPOSURE

Severe overexposure may result in nausea, dizziness, headache. Can cause narcosis, irritation of eyes and nasal passages. May irritate skin. May produce cumulative injury when repeatedly absorbed through skin in sufficient quantities, defatting effect of solvents on tissues.

## EMERGENCY AND FIRST AID PROCEDURES

**INHALATION:** If overcome by vapors, remove to fresh air and if breathing stopped, give artificial respiration - preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

**EYE AND SKIN CONTACT:** Remove contaminated clothing and shoes. Wash skin with plenty of water for at least 15 minutes. Flush eyes with plenty of water for 15 minutes and call a physician.

**INGESTION:** If swallowed, do not induce vomiting. Call physician immediately.

## SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Keep away from heat, sparks, open flame and other sources of ignition.

## INCOMPATIBILITY (Materials to avoid)

Caustic, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.

## HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	Keep away from heat, sparks, open flame and other sources of ignition.

## SECTION VII - SPILL OR LEAK PROCEDURES

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large volume of water. Contain liquid with sand or earth. Absorb with sand or nonflammable absorbent material and transfer into steel drums for recovery or disposal. Prevent liquid from entering drains.

## WASTE DISPOSAL METHOD

Follow local, state and Federal regulations. Consult disposal expert. Can be disposed of by incineration. Excessive quantities should not be permitted to enter drains.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

## RESPIRATORY PROTECTION (Specify type)

None required with adequate ventilation. Use NIOSH approved respirator for organic vapors for confined areas, e.g., Mine Safety Appliance Cat. #439433.

**VENTILATION** Provide adequate ventilation. Vapor concentration must be kept well below TLV.

<b>PROTECTIVE GLOVES</b>	Rubber	<b>EYE PROTECTION</b>	Chemical goggles
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**OTHER PROTECTIVE EQUIPMENT** Impervious apron (if needed)

## SECTION IX - SPECIAL PRECAUTIONS

**RECAUTIONS TO BE TAKEN IN HANDLING AND STORING** Store in the shade between 40°F and 110°F. Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation.

**OTHER PRECAUTIONS** Follow all precautionary information given on the container label, product bulletins and our solvent cementing literature. All handling equipment should be electrically grounded.

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or assumes no responsibility for injury to vendee or third person proximately caused by abnormal use of the material even



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## SECTION I

MANUFACTURER'S NAME Industrial Polychemical Service		EMERGENCY TELEPHONE NO. (213) 321-6515
ADDRESS (Number, Street, City, State, and ZIP Code) 17109 S. Main Street, P.O. Box 471, Gardena, California 90247		
CHEMICAL NAME AND SYNONYMS Solvent Cement for ABS Plastic Pipe		TRADE NAME AND SYNONYMS Weld-On 773 ABS Solvent Cement
CHEMICAL FAMILY Resin: ABS and Solvent: Ketone	FORMULA NA	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS & ADHESIVES	APPROX. %	TLV (Units)
PIGMENTS		NA
INERT FILLER		NA
RESIN ABS (Acrylonitrile Butadiene Styrene) Plastic Resin (Black)	15 - 25	
SOLVENTS Methyl Ethyl Ketone (2-Butanone)	75 - 85	200 PPM
ADDITIVES		
OTHERS		
HAZARDOUS MIXTURES OF SOLVENTS		TLV (Units)

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.) Solvent - MEK	175.2	SPECIFIC GRAVITY (H <sub>2</sub> O=1) Typical	0.860±0.015
VAPOR PRESSURE (mm Hg.) @ 20°C	71.2	PERCENT VOLATILE BY VOLUME (%) Approx	85 to 90
VAPOR DENSITY (AIR=1)	2.5	EVAPORATION RATE (BUC) Approx.	5.7
SOLUBILITY IN WATER (g Solvent / 100 g H <sub>2</sub> O) Approx.	27.1		
APPEARANCE AND ODOR Black opaque, medium syrupy liquid - Ketone odor.			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) (TCC 2FF) (T.O.C.) 28°F	FLAMMABLE LIMITS Vol %	Lel 1.8	Uel 10.0
EXTINGUISHING MEDIA Dry chemical, carbon dioxide, foam - Ansul "Purple K" National Aer-O-Foam			
SPECIAL FIRE FIGHTING PROCEDURES Close or confined quarters require self-contained breathing apparatus. Positive pressure hose mask or airline masks.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Considered fire hazard because of low flash point.			



## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 200 PPM

### EFFECTS OF OVEREXPOSURE

Severe over exposure may result in nausea, dizziness, headache; can cause narcosis irritation of eyes and nasal passages; normal defatting effect of solvents on tissue.

### EMERGENCY AND FIRST AID PROCEDURES

If overcome by vapors, remove to fresh air and if breathing stopped, give artificial respiration. Liquid: Remove contaminated clothing and shoes. Wash skin with plenty of water for 15 minutes. Flush eyes with plenty of water for 15 minutes and call a physician. If swallowed, induce vomiting. Call a physician immediately.

## SECTION VI - REACTIVITY DATA

### STABILITY

UNSTABLE

STABLE

X

CONDITIONS TO AVOID Keep away from heat, sparks, open flame and other sources of ignition.

### INCOMPATIBILITY (Materials to avoid)

Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidants & isocyanates.

### HAZARDOUS DECOMPOSITION PRODUCTS

### HAZARDOUS POLYMERIZATION

MAY OCCUR

WILL NOT OCCUR

### CONDITIONS TO AVOID

Keep away from heat, sparks, open flame and other sources of ignition.

## SECTION VII - SPILL OR LEAK PROCEDURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large volume of water. Contain liquid with sand or earth. Prevent liquid from entering drains.

### WASTE DISPOSAL METHOD

Incinerate. Excessive quantities should not be permitted to enter drains. Consult disposal expert. Follow local, state and Federal regulations.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) None required with normal ventilation. Use respirator for organic vapors for confined areas, e.g., Mine Safety appliance respirator Cat no. 459433.

### VENTILATION

#### LOCAL EXHAUST

(Preferable) Provide normal ventilation (Vapor concentration should be well below TLV.)

#### MECHANICAL (General)

### PROTECTIVE GLOVES

Rubber gloves.

EYE PROTECTION Chemical safety goggles to prevent splashing in eyes.

### OTHER PROTECTIVE EQUIPMENT

Impervious apron (if needed).

## SECTION IX - SPECIAL PRECAUTIONS

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation. Avoid contact with skin. Store between 40°F and 110°F.

### OTHER PRECAUTIONS

(Follow precautionary information given on container label.)

All handling equipment should be electrically grounded.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third person proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.



IPS

WELD-ON

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## SECTION I

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ADDRESS 17109 SOUTH MAIN STREET, P.O. BOX 379, GARDENA, CA. 90247		
CHEMICAL NAME AND FAMILY PVC PRIMER Mixture of organic solvents	TRADE NAME Weld-On P-70 Primer for PVC Plastic Pipe FORMULA NA	

## SECTION II - HAZARDOUS INGREDIENTS

	APPROX. %	TLV (Units)
RESINS: NONE		
Tetrahydrofuran (THF) Major Component		200 PPM
Methyl Ethyl Ketone (MEK) Minor Component		200 PPM
Dimethylformamide (DMF) Very Minor Component		10 PPM (SKIN)
Cyclohexanone Very Minor Component		50 PPM
Purple Dye Trace Quantity		

## SECTION III - PHYSICAL DATA

APPEARANCE Clear or Purple Color	ODOR Ethereal
BOILING POINT (°F/°C) 151°F based on first boiling component - THF.	SPECIFIC GRAVITY @ 75 ± 2°F Typical: 0.870 ± 0.010
VAPOR PRESSURE (mm Hg.) 190 mm Hg. based on first boiling component - THF.	PERCENT VOLATILE BY VOLUME (%) 100%
VAPOR DENSITY (AIR = 1) 2.49	EVAPORATION RATE (BUAC "1") Initially 8
SOLUBILITY IN WATER Solvents completely soluble in water	

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT T.C.C. 6°F	FLAMMABLE LIMITS (PERCENT BY VOLUME)	LEL 2	UEL 11.8
FIRE EXTINGUISHING MEDIA Dry chemical, carbon dioxide, foam - Ansul "Purple K" - National Aer-O-Foam, water fog.			
SPECIAL FIRE FIGHTING PROCEDURES Evacuate enclosed areas. Stay up wind. Close or confined quarters require self-contained breathing apparatus; positive pressure hose masks or airline masks. Use water spray to cool containers, to flush spills from source of ignition, and to disperse vapors.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Fire hazard because of low flash point and high volatility. Vapors are heavier than air and may travel to source of ignition.			



## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE See individual TLV on first page.

## EFFECTS OF OVEREXPOSURE

Severe overexposure may result in nausea, dizziness, headache. Can cause narcosis, irritation of eyes and nasal passages. May irritate skin. May produce cumulative injury when repeatedly absorbed through skin in sufficient quantities, defatting effect of solvents on tissues.

## EMERGENCY AND FIRST AID PROCEDURES

**INHALATION:** If overcome by vapors, remove to fresh air and if breathing stopped, give artificial respiration - preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

**EYE AND SKIN CONTACT:** Remove contaminated clothing and shoes. Wash skin with plenty of water for at least 15 minutes. Flush eyes with plenty of water for 15 minutes and call a physician.

**INGESTION:** If swallowed, do not induce vomiting. Call physician immediately.

## SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

Keep away from heat, sparks, open flame and other sources of ignition.

## INCOMPATIBILITY (Materials to avoid)

Caustic, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.

## HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

Keep away from heat, sparks, open flame and other sources of ignition.

## SECTION VII - SPILL OR LEAK PROCEDURES

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large volume of water. Contain liquid with sand or earth. Absorb with sand or nonflammable absorbent material and transfer into steel drums for recovery or disposal. Prevent liquid from entering drains.

## WASTE DISPOSAL METHOD

Follow local, state and Federal regulations. Consult disposal expert. Can be disposed of by incineration. Excessive quantities should not be permitted to enter drains.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

## RESPIRATORY PROTECTION (Specify type)

None required with adequate ventilation. Use NIOSH approved respirator for organic vapors for confined areas, e.g., Mine Safety Appliance Cat. #439433.

**VENTILATION** Provide adequate ventilation. Vapor concentration must be kept well below TLV.

## PROTECTIVE GLOVES

Rubber

## EYE PROTECTION

Chemical goggles

## OTHER PROTECTIVE EQUIPMENT

Impervious apron (if needed)

## SECTION IX - SPECIAL PRECAUTIONS

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in the shade between 40°F and 110°F. Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation.

## OTHER PRECAUTIONS

Follow all precautionary information given on the container label, product bulletins and our solvent cementing literature. All handling equipment should be electrically grounded.

Information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding accuracy of these data or the results to be obtained from the use thereof.

Assumes no responsibility for injury to vendee or third person proximately caused by abnormal use of the material even



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## SECTION I

MANUFACTURER'S NAME Industrial Polychemical Service		EMERGENCY TELEPHONE NO. (213) 321-6515
ADDRESS (Number, Street, City, State, and ZIP Code) 17109 S. Main Street, P.O. Box 471, Gardena, California 90247		
CHEMICAL NAME AND SYNONYMS Liquid consisting of organic solvents		TRADE NAME AND SYNONYMS Weld-On 711 for PVC Plastic Pipe
CHEMICAL FAMILY Mixture of PVC Resin and Organic Solvents	FORMULA NA	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS & ADHESIVES		APPROX. %	TLV (Unit)
PIGMENTS	Titanium Dioxide, carbon black and other inert fillers		NA
INERT FILLER			NA
RESIN	Polyvinyl Chloride Resin		NA
SOLVENTS	See Below	80 - 85%	
ADDITIVES			
OTHERS			
HAZARDOUS MIXTURES OF SOLVENTS			TLV (Unit)
Tetrahydrofuran (THF)	Major		200 PPM
Dimethylformamide (DMF)	Minor		10 PPM (Skin)

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Based on 1st boiling comp. - THF	151°F	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	Typical	0.976+ 0.012
VAPOR PRESSURE (mm Hg.)	Lowest boiling Component (THF) @ 25°C	190	PERCENT. VOLATILE BY VOLUME (%)	Approx.	80 - 85%
VAPOR DENSITY (AIR=1)		2.49	EVAPORATION RATE (Buac -1)	(Initially)	8
SOLUBILITY IN WATER	Solvent Portion PVC Resin - - -	Precipitates			
APPEARANCE AND ODOR	Opaque Gray, Medium syrupy liquid, Etheral odor				

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) (T.O.C.) 10°F	FLAMMABLE LIMITS	L <sub>FL</sub>	U <sub>FL</sub>
EXTINGUISHING MEDIA Dry chemical, carbondioxide, foam - Ansul "Purple K" - National Aer-O-Foam		L <sub>FL</sub>	U <sub>FL</sub>
SPECIAL FIRE FIGHTING PROCEDURES Close or confined quarters require self contained breathing apparatus. Positive pressure hose masks or airline masks.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Fire hazard because of low flash points, high volatility and heavy vapor.			



## SECTION V - HEALTH HAZARD DATA

**THRESHOLD LIMIT VALUE** Tetrahydrofuran (THF) 200 PPM, Dimethylformamide (DMF) 10 PPM

**EFFECTS OF OVEREXPOSURE** Severe overexposure may result in nausea, dizziness, headache. Can cause narcosis, irritation of eyes and nasal passages. May irritate skin. May produce cumulative injury when repeatedly absorbed through skin in sufficient quantities, defatting effect of solvents on tissue.

**EMERGENCY AND FIRST AID PROCEDURES** If overcome by vapors, remove to fresh air and if breathing stopped, give artificial respiration. Liquid: Remove contaminated clothing and shoes. Wash skin with plenty of water for 15 minutes. Flush eyes with plenty of water for 15 minutes and call a physician. If swallowed, do not induce vomiting. Call physician immediately.

## SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Keep away from heat, sparks, open flame and other sources of ignition.
	STABLE	X	

**INCOMPATIBILITY** (Materials to avoid): Caustic, ammonia, inorganic acids, chlorinated compounds, strong oxidants & isocyanates.

**HAZARDOUS DECOMPOSITION PRODUCTS**

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID Keep away from heat, sparks, open flame and other sources of ignition.
	WILL NOT OCCUR	X	

## SECTION VII - SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**  
Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large volume of water. Contain liquid with sand or earth. Prevent liquid from entering sewers.

**WASTE DISPOSAL METHOD** Incinerate. Excessive quantities should not be permitted to enter drains. Consult disposal expert. Follow local, state and Federal regulations.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION** (Specify type) None required with normal ventilation. Use respirator for organic vapors for confined areas, e.g., Mine safety appliance respirator Cat no. 459433

**VENTILATION** (LOCAL EXHAUST) (Preferable) Provide normal ventilation - (Vapor concentration should be well below TLV.)  
(MECHANICAL (General)) Low point minimum of 6 air changes per hour.

**PROTECTIVE CLOVES** Rubber or PVA gloves are suitable.

**EYE PROTECTION** Chemical safety goggles to prevent splashing in eyes

**OTHER PROTECTIVE EQUIPMENT** Impervious apron (if needed.)

## SECTION IX - SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**  
Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation. Avoid contact with skin. Store between 40°F and 110°F.

**OTHER PRECAUTIONS** (Follow precautionary information given on container label.)

All handling equipment should be electrically grounded.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third person proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.